	Application No.	Applicant(s)
Notice of Allowability	09/899,937	SHIMAZAWA ET AL.
	Examiner	Art Unit
	Christopher R. Magee	2653
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to amendment after final	<u>l, filed 11/22/05</u> .	
2. The allowed claim(s) is/are 1-14.		
 Acknowledgment is made of a claim for foreign priority un a)	been received. been received in Application Notuments have been received in the communication to file a received this application.	o his national stage application from the ply complying with the requirements JER'S AMENDMENT or NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") musical including changes required by the Notice of Draftsperson hereto or 2) to Paper No./Mail Date including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.3) 	on's Patent Drawing Review (P	ne Office action of
each sheet. Replacement sheet(s) should be labeled as such in the first of the deposit of and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	ne header according to 37 CFR 1.1 sit of BIOLOGICAL MATERIA	21(d). L must be submitted. Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 12/06/2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summ Paper No./Mail 3), 7. ☐ Examiner's Ame	Date .
		ANGEL CASTRO

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) PRIMARY EXAMINER

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DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

2. The reply filed 11/22/2005 was applied to the following effect: All relevant objections and rejections are withdrawn as being satisfied.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 12/06/2005 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner has considered the information disclosure statement.

Reasons for Allowance

4. Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance:

This application is for a MAGNETORESISTIVE EFFECT THIN-FILM MAGNETIC HEAD AND MANUFACTURING METHOD OF MAGNETORESISTIVE EFFECT THIN-FILM MAGNETIC HEAD .

• Claim 1 specifies a magnetoresistive effect thin film magnetic head, which requires:

"an additional insulation layer formed so that a distance between said lower shield layer and said upper gap layer increases at a location where said magnetoresistive effect multilayer is absent."

The prior art of record fails to fairly, teach, show or suggest, by either anticipating or rendering obvious, the invention as set forth in the claims of the instant application. Furthermore,

a search made does not detect the combined claimed elements as set forth in the pending claims.

Additionally, the reasons for allowance of the claims over the prior art of record is believed to be

readily clear, self evident and apparent from the claim language set forth in each of claim 1

when compared and contrasted with the prior art.

More particularly, the instant invention (as set forth in claim 1) provides an additional

insulation layer formed so that a distance between said lower shield layer and said upper gap

layer increases at a location where said magnetoresistive effect multilayer is absent. None of the

cited prior art of record, however, do not disclose such a magnetoresistive effect thin film

magnetic head, as set forth in the manner, function and relationship relative to other claimed

structures as prescribed by the independent claims.

• Claim 6 specifies a manufacturing method of a magnetoresistive effect thin film magnetic

head, which requires:

"forming an additional insulation layer in said recess; and "forming and insulation gap layer of an insulation material at least on said additional insulation layer to surround said lower gap layer and said magnetoresistive effect

multilayer;"

The prior art of record fails to fairly, teach, show or suggest, by either anticipating or

rendering obvious, the invention as set forth in the claims of the instant application. Furthermore,

a search made does not detect the combined claimed elements as set forth in the pending claims.

Additionally, the reasons for allowance of the claims over the prior art of record is believed to be

readily clear, self evident and apparent from the claim language set forth in each of claim 6

when compared and contrasted with the prior art.

More particularly, the instant invention (as set forth in claim 6) provides forming an additional insulation layer in said recess; and forming and insulation gap layer of an insulation material at least on said additional insulation layer to surround said lower gap layer and said magnetoresistive effect multilayer. None of the cited prior art of record, however, do not disclose such a magnetoresistive effect thin film magnetic head, as set forth in the manner, function and relationship relative to other claimed structures as prescribed by the independent claims.

• Claim 9 specifies a manufacturing method of a magnetoresistive effect thin film magnetic head, which requires:

"forming insulation gap layer of an insulation material on said lower shield layer to surround said lower gap layer and said magnetoresistive effect multilayer;" and "forming an additional insulation layer on said insulation gap layer at a position where said magnetoresistive effect multilayer is absent."

The prior art of record fails to fairly, teach, show or suggest, by either anticipating or rendering obvious, the invention as set forth in the claims of the instant application. Furthermore, a search made does not detect the combined claimed elements as set forth in the pending claims. Additionally, the reasons for allowance of the claims over the prior art of record is believed to be readily clear, self evident and apparent from the claim language set forth in each of claim 9 when compared and contrasted with the prior art.

More particularly, the instant invention (as set forth in claim 9) provides forming insulation gap layer of an insulation material on said lower shield layer to surround said lower gap layer and said magnetoresistive effect multilayer and forming an additional insulation layer on said insulation gap layer at a position where said magnetoresistive effect multilayer is absent.

None of the cited prior art of record, however, do not disclose such a magnetoresistive effect thin film magnetic head, as set forth in the manner, function and relationship relative to other claimed structures as prescribed by the independent claims.

• Claim 12 specifies a manufacturing method of a magnetoresistive effect thin film magnetic head, which requires:

"forming a recess in a part of lower shield layer at a position where said magnetoresistive effect multilayer is to be absent;" "forming a first additional insulation layer in said recess;" and "forming a second additional insulation layer on said insulation gap layer at a position where said magnetoresistive effect multilayer is absent;"

The prior art of record fails to fairly, teach, show or suggest, by either anticipating or rendering obvious, the invention as set forth in the claims of the instant application. Furthermore, a search made does not detect the combined claimed elements as set forth in the pending claims. Additionally, the reasons for allowance of the claims over the prior art of record is believed to be readily clear, self evident and apparent from the claim language set forth in each of claim 12 when compared and contrasted with the prior art.

More particularly, the instant invention (as set forth in claim 12) provides forming a recess in a part of lower shield layer at a position where said magnetoresistive effect multilayer is to be absent; forming a first additional insulation layer in said recess and forming a second additional insulation layer on said insulation gap layer at a position where said magnetoresistive effect multilayer is absent. None of the cited prior art of record, however, do not disclose such a magnetoresistive effect thin film magnetic head, as set forth in the manner, function and relationship relative to other claimed structures as prescribed by the independent claims.

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5. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher R. Magee whose telephone number is (571) 272-

7592. The examiner can normally be reached on M-F, 8: 00 am-5: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

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December 20, 2005 crm